Claims

A method of making an adhesive article comprising the steps of:
 providing a release liner comprising a moldable layer, a release
 surface and a back surface;

applying a pattern of a non-adhesive material to the release surface of the release liner;

embedding the non-adhesive material into the release liner; and transferring an adhesive layer having a front and back surface and end edges onto the release liner, wherein the front surface of the adhesive layer is adhered to the release surface of the release liner.

- 2. The method of claim 1 further comprising applying a facestock to the back surface of the adhesive layer.
- 3. The method of claim 1 wherein the adhesive layer has a facestock adhered to the its back surface.
- 4. The method of claim 1 wherein the pattern comprises a plurality of dots, lines or combinations thereof.
- 5. The method of claim 1 wherein the pattern comprises a plurality of closely spaced parallel lines.
- 6. The method of claim 1 wherein the applying step comprises printing, vacuum metalization, or sputtering.

- 7. The method of claim 1 wherein the applying step comprises flexographic printing.
- 8. The method of claim 1 wherein the applying step comprises gravure printing.
- 9. The method of claim 1 wherein the applying step comprises laser printing.
- 10. The method of claim 1 wherein the release surface of the release liner has a Sheffield roughness of greater than about 50.
- 11. The method of claim 1 wherein the release surface of the release liner has a matte finish.
- 12. The method of claim 1 wherein the release liner has a patterned release surface.
- 13. The method of claim 1 wherein the applying step and the embedding step occur simultaneously.
- 14. The method of claim 1 wherein the embedding step comprises applying heat and pressure to the non-adhesive material and the release liner with a textured roller.

- 15. The method of claim 1 wherein the non-adhesive material comprises printing ink.
- 16. The method of claim 1 wherein the non-adhesive material comprises a UV curable ink.
- 17. The method of claim 1 wherein the non-adhesive material comprises coalescing ink.
- 18. The method of claim 1 wherein the non-adhesive material comprises a porous non-adhesive material.
- 19. The method of claim 18 wherein the porous non-adhesive material comprises an elastomer.
- 20. The method of claim 1 wherein the embedding step comprises applying heat and pressure to the non-adhesive material and the release liner using a roller or platen having an incised pattern in its surface.
- 21. The method of claim 1 further comprising applying randomly distributed non-adhesive particulate material onto the release surface of the release liner prior to the embedding step.
- 22. The method of claim 1 further comprising applying a second pattern of non-adhesive material to the release surface of the release liner, wherein said

second pattern of non-adhesive material has a thickness greater than that of the first pattern of non-adhesive material.

- 23. The method of claim 1 wherein said adhesive is a pressure sensitive adhesive.
- 24. The method of claim 1 wherein said adhesive is a heat-activated adhesive.
- 25. The method of claim 1 wherein the pattern comprises a plurality of lines, wherein at least 50% of the lines intersect the end edges of the adhesive layer.
- 26. The method of claim 1 further comprising applying a second release liner to the back surface of the adhesive layer.
- 27. The method of claim 1 wherein the back surface of the release liner has a release coating thereon.
- 28. The method of claim 27 further comprising applying a second adhesive layer to the back surface of said release liner, said front surface of said second adhesive layer in contact with the back surface of the release liner.
- 29. The method of claim 28 further comprising applying a facestock to the back surface of one of said adhesive layers.

- 30. The method of claim 28 wherein said second adhesive layer has a facestock adhered to its back surface.
 - 31. An adhesive article comprising:
 - a release liner having a release surface and a back surface;
- a continuous layer of adhesive having a front surface and a back surface and end edges, wherein the front surface of the adhesive is adhered to the release surface of the release liner; and
- a pattern of non-adhesive material forms embedded into the release surface of the release liner, said non-adhesive material forms having a top surface.
- 32. The adhesive article of claim 31 wherein a facestock is applied to the back surface of the adhesive layer.
- 33. The adhesive article of claim 31 wherein the non-adhesive material forms have an average thickness of about 30 nanometers to about 100μ .
- 34. The adhesive article of claim 31 wherein the pattern of non-adhesive material forms is applied by vacuum metalization or sputtering.
- 35. The adhesive article of claim 31 wherein the pattern of non-adhesive material forms is applied by printing.
- 36. The adhesive article of claim 31 wherein the non-adhesive material comprises at least one UV curable ink.

- 37. The adhesive article of claim 31 wherein the pattern of non-adhesive material forms comprises a plurality of dots, lines or combinations thereof.
- 38. The adhesive article of claim 31 wherein the pattern of non-adhesive material forms comprises a plurality of lines having an average width of from about 12μ to about 250μ and an average thickness of from about 30 nanometers to about 100μ .
- 39. The adhesive article of claim 31 wherein the pattern of non-adhesive material forms comprises a plurality of lines, and wherein at least 50% of the lines intersect the end edges of the adhesive layer.
- 40. The adhesive article of claim 31 wherein the pattern of non-adhesive material forms comprises a plurality of lines, and wherein the lines form a grid pattern.
- 41. The adhesive article of claim 34 wherein the non-adhesive material forms have an average thickness of about 30 to about 3000 nanometers.
- 42. The adhesive article of claim 31 wherein the adhesive layer comprises a pressure sensitive adhesive.
- 43. The adhesive article of claim 31 wherein the adhesive layer comprises a heat-activated adhesive.

- 46. The adhesive article of claim 31 wherein the non-adhesive material comprises a coalesced ink.
- 47. The adhesive article of claim 31 wherein the non-adhesive material comprises a porous non-adhesive material.
- 48. The adhesive article of claim 47 wherein the porous non-adhesive material comprises an elastomer.
- 49. The adhesive article of claim 31 wherein the top surfaces of the non-adhesive material forms are below the plane of the surface of the release liner.
- 50. The adhesive article of claim 31 wherein the release surface of the release liner has a textured surface.
- 51. The adhesive article of claim 50 wherein the release surface has a random texture.
- 52. The adhesive article of claim 50 wherein the release surface has a patterned finish.
- 53. The adhesive article of claim 50 wherein the lower surface of the adhesive layer has a textured surface that is complementary to the textured surface of the release liner.

- 54. The adhesive article of claim 31 further comprising a second release liner adhered to the back surface of the adhesive.
- 55. The adhesive article of claim 31 wherein the back surface of the release liner has a release coating thereon.
- 56. The adhesive article of claim 55 further comprising a second adhesive layer having a front and back surface adhered to the release liner, the front surface of the second adhesive in contact with the back surface of the release liner.
- 57. The adhesive article of claim 56 further comprising a facestock adhered to the back surface of one of the adhesive layers.
- 58. The adhesive article of claim 56 further comprising a facestock adhered to the back surface of the second adhesive layer.
 - 59. An adhesive article comprising:
 - a release liner having a release surface and a back surface;
- a continuous layer of adhesive having a front surface and a back surface and end edges, wherein the front surface of the adhesive is adhered to the release surface of the release liner;
- a pattern of non-adhesive material forms embedded into the release surface of the release liner: and
 - a facestock adhered to the back surface of the adhesive layer,

wherein the thickness of the non-adhesive material forms is sufficient enough to cause deformation of the facestock upon application of the adhesive article to a substrate.